## **Amendments to the Claims**

The listing of claims below is intended to replace all prior listings of the claims in the present application.

- 1-67 (canceled)
- 68. (currently amended) A method of regulating protein kinase C activity comprising:

contacting <u>human</u> protein kinase C <u>selected from the group of</u> isozymes  $\alpha$ ,  $\beta$ , and  $\gamma$  with a mammalian biliverdin reductase , or a fragment thereof with protein kinase C regulatory activity <u>that comprises</u>, or a polypeptide comprising the amino acid sequence of SEQ ID NO: 16 or 17, <u>said contacting being under conditions</u> effective to regulate <u>activity of the human</u> protein kinase C <u>activity</u>.

## 69-70 (canceled)

- 71. (previously presented) The method according to claim 68, wherein said contacting is carried out with rat or human biliverdin reductase.
- 72. (previously presented) The method according to claim 71, wherein the biliverdin reductase is human biliverdin reductase comprising an amino acid sequence according to SEQ ID NO: 1 or SEQ ID NO: 3.
- 73. (currently amended) The method according to claim 68, wherein said contacting is carried out with a a polypeptide comprising the fragment of the mammalian biliverdin reductase that comprises the amino acid sequence of SEQ ID NO: 16 or 17.
- 74. (previously presented) The method according to claim 68, wherein said contacting is carried out in a cell.
- 75. (previously presented) The method according to claim 74, wherein the cell is *in vivo*.
- 76. (previously presented) The method according to claim 74, wherein the cell is *in vitro*.

77. (currently amended) The method according to claim <u>73</u> 68, wherein the fragment of the mammalian biliverdin reductase comprises said contacting is carried out with a polypeptide comprising the amino acid sequence of SEQ ID NO: 18, 19, 34, or 35.